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RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/771,536B

DATE: 02/05/2002  
 TIME: 11:47:51

Input Set : A:\Sequence Listing.txt  
 Output Set: N:\CRF3\02052002\I771536B.raw

3 <110> APPLICANT: Langridge, William H. R.  
 4       Yu, Jie  
 5       Arakawa, Takeshi  
 7 <120> TITLE OF INVENTION: Transgenic Plant-Based Vaccines  
 9 <130> FILE REFERENCE: 12273-3  
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/771,536B  
 12 <141> CURRENT FILING DATE: 2001-01-29  
 14 <160> NUMBER OF SEQ ID NOS: 15  
 16 <170> SOFTWARE: PatentIn version 3.1  
 18 <210> SEQ ID NO: 1  
 19 <211> LENGTH: 376  
 20 <212> TYPE: DNA  
 21 <213> ORGANISM: Vibrio cholerae  
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 26 ggaacacctc aaaatattac tgatttgtt gcagaatacc acaacacaca aatacatacg     120  
 28 ctaaatgata agatattgtc gtatacagaa tctctagctg gaaacagaga gatggctatc     180  
 30 attacttttta agaatggtgc aacttttcaa gtagaagtac caggtgtca acatatacat     240  
 32 tcacaaaaaaa aagcgattga aaggatgaag gataccctga ggattgcata tcttactgaa     300  
 34 gctaaagtgc aaaagttatg tgtatggaat aataaaacgc ctcatgcgt tgccgcaatt     360  
 36 agtatggcaa attggc   376  
 39 <210> SEQ ID NO: 2  
 40 <211> LENGTH: 36  
 41 <212> TYPE: DNA  
 42 <213> ORGANISM: artificial sequence  
 44 <220> FEATURE:  
 45 <223> OTHER INFORMATION: completely synthesized  
 47 <400> SEQUENCE: 2  
 48 gctctagagc caccatgatt aaattaaaat ttggtg                                     36  
 51 <210> SEQ ID NO: 3  
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 53 <212> TYPE: DNA  
 54 <213> ORGANISM: artificial sequence  
 56 <220> FEATURE:  
 57 <223> OTHER INFORMATION: completely synthesized  
 59 <400> SEQUENCE: 3  
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 63 <210> SEQ ID NO: 4  
 64 <211> LENGTH: 391  
 65 <212> TYPE: DNA  
 66 <213> ORGANISM: artificial sequence  
 68 <220> FEATURE:  
 69 <223> OTHER INFORMATION: completely synthesized hinge coding region and Vibrio cholerae

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71 <400> SEQUENCE: 4  
 72 atgattaaat taaaatttgg tgttttttt acagtttac tatcttcagc atatgcacat 60  
 74 ggaacacccctc aaaatattac tgatttgtgt gcagaatacc acaacacaca aatacatacg 120  
 76 ctaaatgata agatattgtc gtatacagaa tctctagctg gaaacagaga gatggctatc 180  
 78 attacttta agaatggtgc aactttcaa gtagaagtac caggttagtca acatatacat 240  
 80 tcacaaaaaa aagcgattga aaggatgaag gataccctga ggattgcata tcttactgaa 300  
 82 gctaaagtgc aaaagttagt tgtagtggaaataaaaacgc ctcatgcgt tgccgcaatt 360  
 84 agtatggcaa attggcccaag gcccgggata a 391

87 <210> SEQ ID NO: 5  
 88 <211> LENGTH: 54  
 89 <212> TYPE: DNA  
 90 <213> ORGANISM: Vibrio cholerae  
 92 <400> SEQUENCE: 5  
 93 atggtaaaga taatatttgt gtttttatt ttcttatcat cattttcata tgca 54  
 96 <210> SEQ ID NO: 6  
 97 <211> LENGTH: 24  
 98 <212> TYPE: DNA  
 99 <213> ORGANISM: artificial sequence  
 101 <220> FEATURE:  
 102 <223> OTHER INFORMATION: completely synthesized  
 104 <400> SEQUENCE: 6  
 105 accaatacat tacactagca tctg 24  
 108 <210> SEQ ID NO: 7  
 109 <211> LENGTH: 27  
 110 <212> TYPE: DNA  
 111 <213> ORGANISM: artificial sequence  
 113 <220> FEATURE:  
 114 <223> OTHER INFORMATION: completely synthesized  
 116 <400> SEQUENCE: 7  
 117 gactgagtgc gatattatgt gtaatac 27  
 120 <210> SEQ ID NO: 8  
 121 <211> LENGTH: 66  
 122 <212> TYPE: DNA  
 123 <213> ORGANISM: Rotavirus sp.  
 125 <400> SEQUENCE: 8  
 126 gataggttga ctactagaga aattgaacaa gttgaatttgt tgaagagaat ttacgataag 60  
 128 ttgact 66  
 131 <210> SEQ ID NO: 9  
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 133 <212> TYPE: DNA  
 134 <213> ORGANISM: artificial sequence  
 136 <220> FEATURE:  
 137 <223> OTHER INFORMATION: completely synthesized  
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 143 <210> SEQ ID NO: 10  
 144 <211> LENGTH: 60  
 145 <212> TYPE: DNA  
 146 <213> ORGANISM: artificial sequence

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148 <220> FEATURE:  
 149 <223> OTHER INFORMATION: completely synthesized  
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 157 <212> TYPE: DNA  
 158 <213> ORGANISM: artificial sequence  
 160 <220> FEATURE:  
 161 <223> OTHER INFORMATION: Vibrio cholerae and Rotavirus sp.  
 163 <400> SEQUENCE: 11  
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 166 ggaacacccctc aaaatattac tgatttggt gcagaatacc acaacacaca aatacatacg 120  
 168 ctaaatgata agatattgtc gtatacagaa tctcttagctg gaaacagaga gatggctatc 180  
 170 attactttt agaatggtgc aactttcaa gtatcgtac caggtatgtca acatatacgat 240  
 172 tcacaaaaaa aaggcattga aaggatgaag gataccctga ggattgcata tcttactgaa 300  
 174 gctaaggctcg aaaaggatcg ttttatggat aataaaacgc ctcatgcgt tgccgcaatt 360  
 176 agtatggcaa attggccag gccccggaga gctcgataag ttgactacta gggagattga 420  
 178 gcaagttgag ttgttgaaga ggatttacga taagttgact tctgagaagg atgagttgt 480  
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 184 <211> LENGTH: 444  
 185 <212> TYPE: DNA  
 186 <213> ORGANISM: Escherichia coli  
 188 <400> SEQUENCE: 12  
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 191 gatggcaatg ctctgccatc agctgtaaag ttatgttatt ctcccgcatc aaaaactttt 120  
 193 gaaaggatcata gagtaatgac tcaagttcat acaaaccatg caactaaaaa agtaattgtt 180  
 195 aaacttgctg atacaccaca gtttacatgat gtttgaattt caactgttca aatgcctatc 240  
 197 agtgtgtcat gggggggaca agtattatct tctacaacag ccaaagaatt tgaagctgct 300  
 199 gctttggat attctgcattt cgggtttaat ggcgtatcat cttctcaaga gtttagtaatt 360  
 201 agcgctgcac ctaaaactgc cggtaccggcc ccaactgcag gaaactattc aggagtagta 420  
 203 tctcttggtaa tgactttggg atcc 444  
 206 <210> SEQ ID NO: 13  
 207 <211> LENGTH: 141  
 208 <212> TYPE: DNA  
 209 <213> ORGANISM: Vibrio cholerae  
 211 <400> SEQUENCE: 13  
 212 atcagtaata ctgcgtatga aaaaacccaa agtcttagtg taaaattcct tgacgaatac 60  
 214 caatctaaag ttaaaagaca aatattttca ggctatcatat ctgtatattga tacacataat 120  
 216 agaattaaag atgagttgtg a 141  
 219 <210> SEQ ID NO: 14  
 220 <211> LENGTH: 54  
 221 <212> TYPE: DNA  
 222 <213> ORGANISM: Vibrio cholerae  
 224 <400> SEQUENCE: 14  
 225 atggtaaaga taatatttggt gtttttattt ttcttatcat cattttcata tgca 54  
 228 <210> SEQ ID NO: 15  
 229 <211> LENGTH: 651

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230 <212> TYPE: DNA  
231 <213> ORGANISM: artificial sequence  
233 <220> FEATURE:  
234 <223> OTHER INFORMATION: Vibrio cholerae and Escherichia coli  
236 <400> SEQUENCE: 15

237 atggtaaaga taatatttgt	ttcttatcat catttcata	tgcagtcgac	60
239 gtagagaaaa atattactgt	aacagctagt gttgatcctg	taattgatct tttgcaagct	120
241 gatggcaatg ctctgccatc	agctgtaaag ttagtttatt	ctcccgcatc aaaaactttt	180
243 gaaagttaca gagtaatgac	tcaagttcat acaaaccatg	caactaaaaa agtaattgtt	240
245 aaacttgctg atacaccaca	gcttacagat gttctgaatt	caactgttca aatgcctatc	300
247 agtgtgtcat ggggaggaca	agtattatct tctacaacag	ccaaagaatt tgaagctgct	360
249 gctttggat attctgcac	cggtgtaaat ggcgtatcat	cttctcaaga gtttagtaatt	420
251 agcgctgcac ctaaaactgc	cggtaccgcc ccaactgcag	gaaaactattc aggagtagta	480
253 tctcttgtaa tgactttggg	atccgtcgac atcagtaata	cttgcgtatga aaaaacccaa	540
255 agtctaggtg taaaattcct	tgacgaatac caatctaaag	ttaaaaagaca aatattttca	600
257 ggctatcaat ctgatattga	tacacataat agaattaaag	atgagtttg a	651

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/771,536B

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L:11 M:270 C: Current Application Number differs, Replaced Current Application Number